

Title (en)
AN EFFICIENT AND ACCURATE PSEUDO 2-D INVERSION SCHEME FOR MULTICOMPONENT INDUCTION LOG DATA

Title (de)
EFFIZIENTES UND GENAUES PSEUDO-2D-INVERSIONSSCHEMA FÜR MEHRKOMPONENTENINDUKTIONS-PROTOKOLLIERUNGSDATEN

Title (fr)
SCHEMA DE PSEUDO INVERSION 2-D EFFICACE ET PRECIS POUR DONNEES DE DIAGRAPHIE PAR INDUCTION A COMPOSANTES MULTIPLES

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Priority

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Abstract (en)
[origin: WO02071099A1] A fast, efficient and accurate pseudo 2-D inversion scheme (Fig. 4) for resistivity determination of an anisotropic formation (Fig. 3) uses data from a tool (3DEX) (10) comprising three transmitters (101, 103, 105) and three corresponding receivers (107, 109, 111) sampling the formation in a plurality of spatial directions. An initial model (311) of the formation including invasion zones is obtained using a conventional multifrequency and/or multispacing logging tool. A pseudo 2-D inversion scheme combines an accurate full 2-D forward solution (313) of the synthetic responses of the earth model with a 1-D approximation (323) of the sensitivity matrix (317) of the horizontally layered anisotropic background model. The timesaving compared to a regular 2-D inversion scheme can be tremendous.

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Citation (search report)

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- See references of WO 02071099A1

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